



Towards a Resilient Seattle

Pre-Disaster Recovery Planning in Seattle

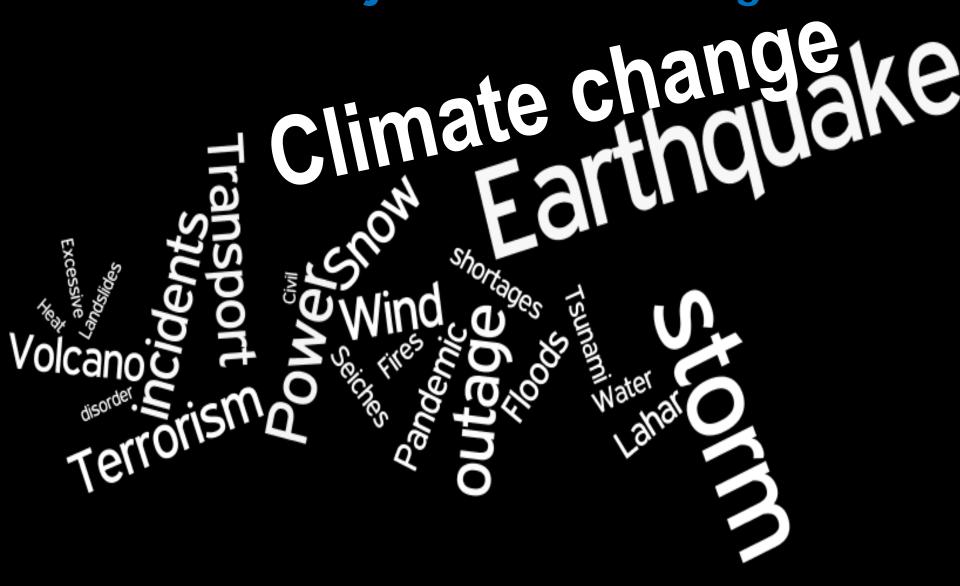
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Resilience

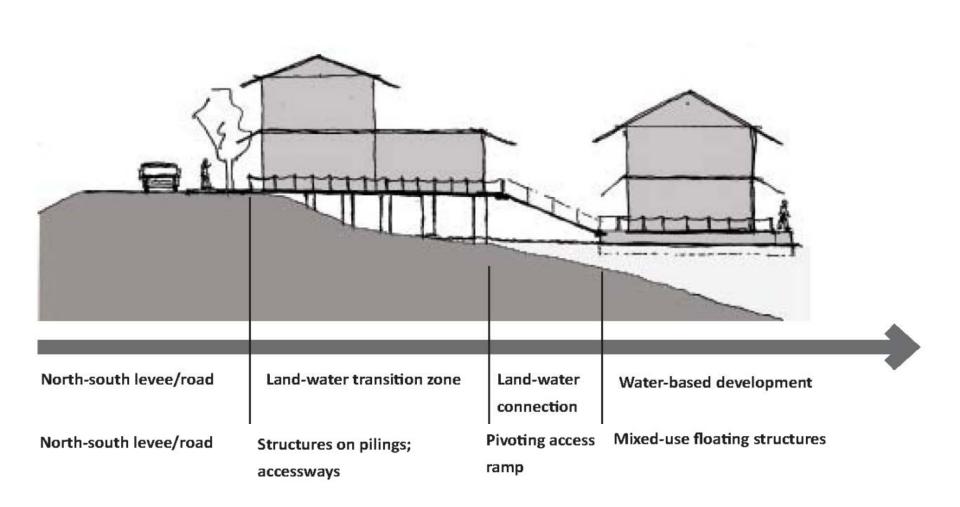
A framework for planning in the 21st Century



It's more than just climate change!



Plan for variability – not constancy!



Resilience applies to all land use

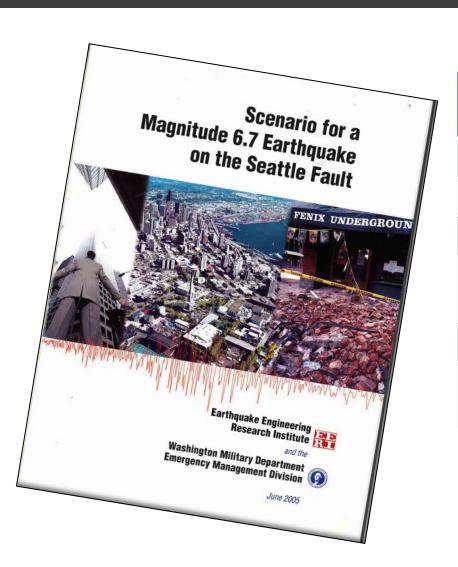
- Resilience as a framework for real sustainability
- Join land use planning with infrastructure planning
- Multi-scale solutions/strategies for better adaptation, resilience to extreme events
- Blend smart design with smart semi-autonomous districts
- Encourage solutions with multiple benefits instead of sector-only benefits

Resilience in all planning areas

- Shoreline planning
- Comprehensive plan updates
- Neighborhood plan updates
- Transit Oriented Development
- Disaster mitigation planning

- Campus planning
- Master planned developments
- Utility/infrastructure planning
- Climate change strategies
- Capital planning (10-year CIP)

SEATTLE EARTHQUAKE SCENARIO 6.7M



SEATTLE EARTHQUAKE SCENARIO 6.7M (Created in 2005)

\$33 billion in damage

1,600 deaths

24,200 injured

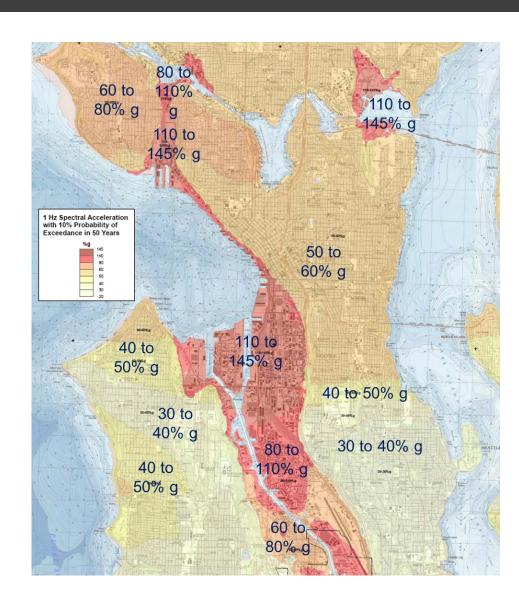
29,000 buildings severely damaged 154,500 buildings moderately damaged

Port facilities badly damaged

Partial closures on all 6 major highways 130 fires

MANY OF SEATTLE'S JOBS AT RISK

- Many of Seattle's jobs in red zone
- One-in-ten chance in the next 50 years
- Accelerations of up to 145% gravity
- Current code is 40% gravity but probably performs near 80% gravity



UNREINFORCED MASONRY BUILDINGS ARE AT RISK

Over 1,000 unreinforced masonry buildings







on, Eric Lipton and Ray Rivera.

Officials said they were workg on Monday to provide tempory housing for people displaced Hurricane Sandy despite consion and conflicting accounts of w many needed places to live.

"We don't really know yet, in th," Go

imates 1 000 peor e some rt-term ne who solution

could not simply return to houses that had sustained seriou

longer-term issue will be ing and repairing their said W. Craig Fugate, adm

"As power comes on, is Schools Reopen to Snarls, and Transit Headaches Persist longer-term issue will be a

Fractured Recovery Divides a Frustrated Region

Flooded

Seattle Pre-Disaster Recovery Plan: Phase 1

- Background research
- Case studies
- Four "focus groups" with more than 60
- Identified
 - Shared values
 - Issues and strategies
- Developed Recovery Plan concepts
- Decision-making processes
- Draft scope of work for Phase 2

RECOMMENDED STRATEGY

- 1. Augment social/community connectivity
- 2. Connect disaster professionals
- 3. Keep the money flowing
- 4. Develop resilience messaging
- 5. Integrate resilience into city plans
- 6. Consult and inform
- 7. Build multi-scale resilience into centralized systems
- 8. Use shared values to guide recovery

USE SHARED VALUES TO GUIDE RECOVERY

- **Equity and Diversity**
- Neighborhood Ownership
- Innovation
- Participation and Communication

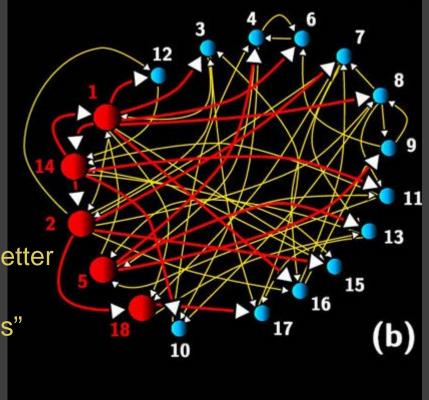
- Economic Vitality
- Independence and **Individuality**
- **Mobility**
- Resilience and Sustainability
- Environmental Quality Civil rights and liberties

RECOVERY TAKES THE WHOLE COMMUNITY

- After a major disaster, many organizations will ask themselves: "What can we do to help?"
- Help will be needed because
 - Governments are overwhelmed
 - Federal funds do not cover all losses
 - Insurance does not cover all losses
- If we plan for recovery we can:
 - Build back stronger
 - Bring everyone along
 - Avoid lost time and unnecessary conflict
 - Start work before a disaster that makes us all more resilient.

BUILD ON SOCIAL RESILIENCE

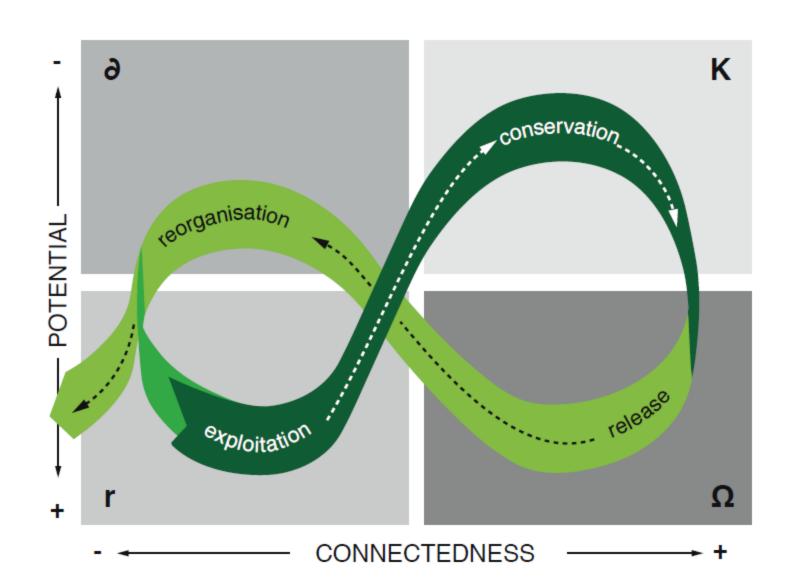
- Self-reliant "survivors"
 - Hopefulness
 - Positive ability to cope
 - Capable
 - Adaptable
 - Think of recovery as a chance to rebuild to be even stronger and better than ever.
 - Do not see themselves as "victims"
- Strong social connections
- "Trusted relationships" in advance
- Strong sense of community



Nest green buildings into green neighborhoods to make resilient cities to make resilient regions



RESILIENCE: FLOURISHING WITH CHANGE



Thank you!

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